BMW Forschung u. Technik GmbH. 25th Anniversary of a Think Tank.



Car2x-Communication.



BMW Group

Car2x-Communication. Contents.

Car2x-Projects.

Technology.

Traffic light assistant.

Intersection assistant.

Emergency vehicle warning.

Bad weather warning.

Braking manoeuvre information.

Obstacle warning.

BMW Group is partner in a number of different projects.













Car2x-Communication. Technology.

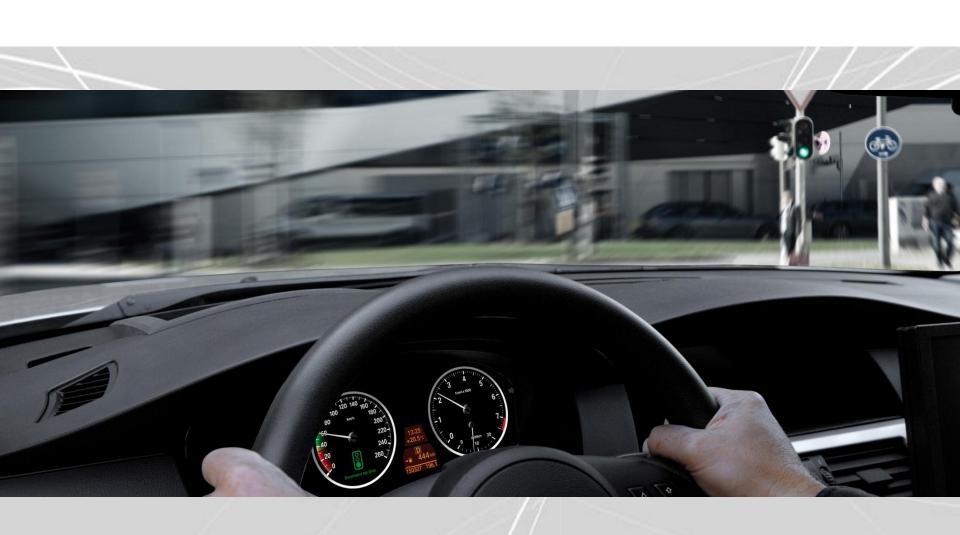


Acts as a further sensor enabling applications to both increase safety and comfort.

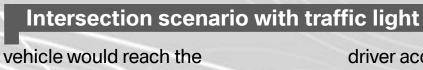
Secure information exchange (e.g. position, velocity, ...)

Range: 200 ~ 400m

Traffic light assistant.



Traffic light assistant. Individual green sequence of traffic lights.



intersection at red keeping the current speed

driver accelerates to suggested velocity

vehicle hits a green light







Traffic light assistant. Red light information.

Intersection scenario with traffic light

vehicle would reach the intersection at red keeping the current speed

due to traffic conditions acceleration is not possible

after the information the driver brakes in time



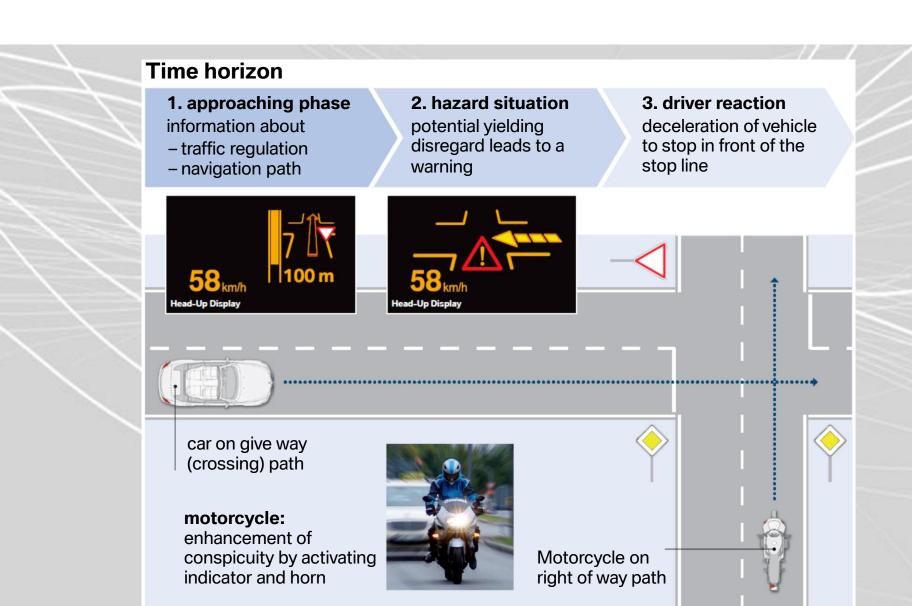




Car2x-Communication. Intersection assistant.



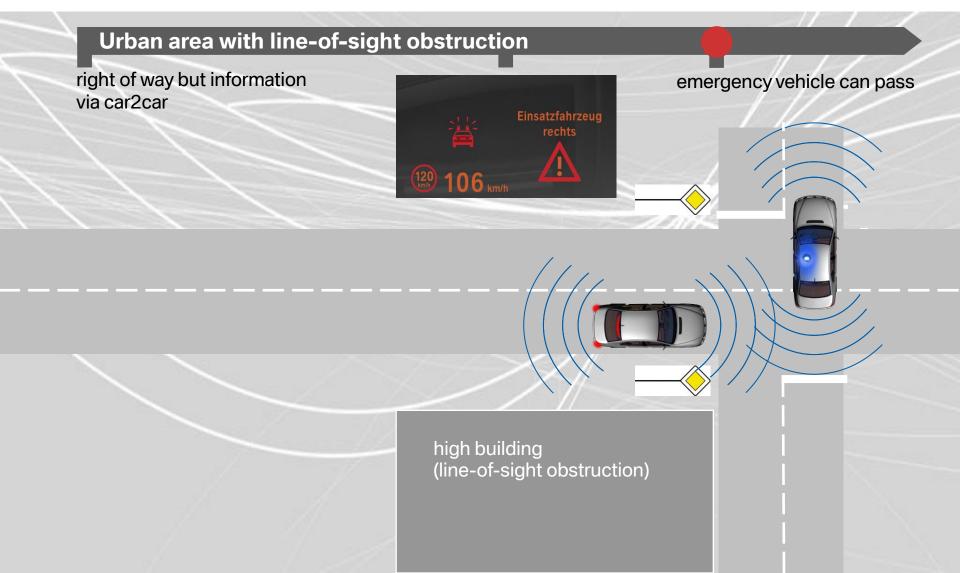
Car2x-Communication. Intersection assistant.



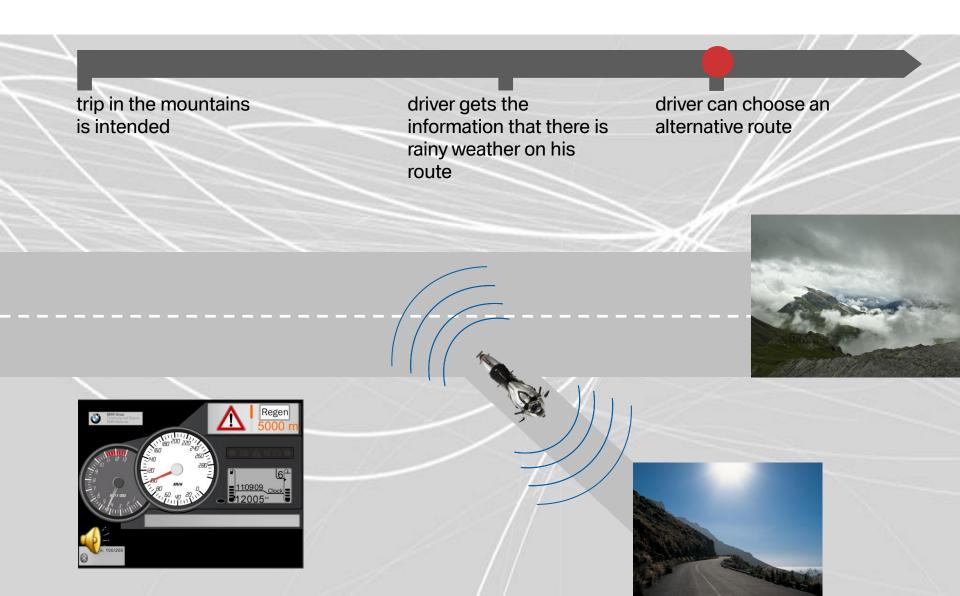
Car2x-Communication. Hazard warnings.



Car2x-Communication. Emergency vehicle warning.



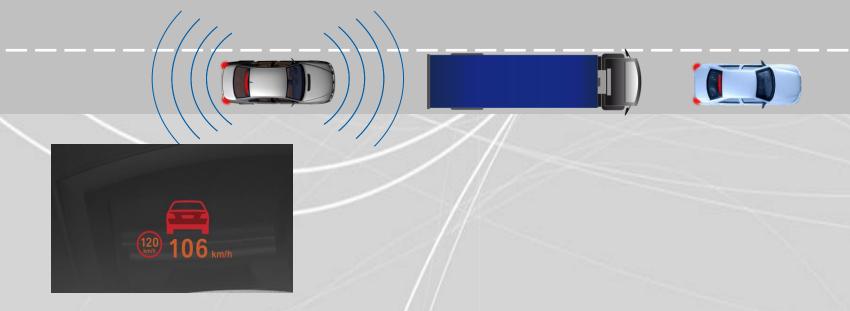
Car2x-Communication. Bad weather warning.



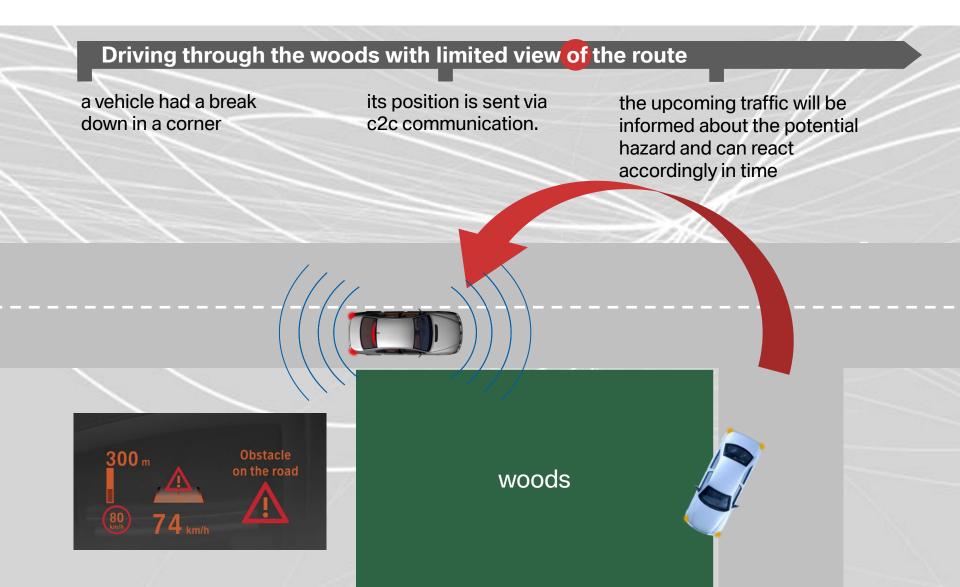
Car2x-Communication. Braking manoeuvre information.

Bumber-to-bumber traffic incl. a truck (line-of-sight obstruction)

sudden braking manoeuvre of the first vehicle in line truck driver can see the braking lights but conceals the braking car to the following vehicle via c2c communication also the following vehicle gets the information in the Head-Up Display



Car2x-Communication. Obstacle warning.



Thank you for your attention.

